

09404900 EAST FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°09'51", long 112°57'28", in SE¹/₄SW¹/₄NW¹/₄ sec. 2, T. 42 S., R. 10 W., Washington County, Hydrologic Unit 15010008, Zion National Park, on right bank 0.7 mi upstream from Zion National Park boundary, 1.2 mi upstream from Shunes Creek, 2.7 mi southeast of Springdale, and 3.4 mi south-southeast of Zion National Park headquarters.

DRAINAGE AREA.--395 mi², approximately.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,940 ft above sea level, from topographic map.

REMARKS.--Records good except for flows greater than 500 ft³/s and estimated daily discharges, which are poor. Numerous diversions for irrigation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft³/s Aug. 10, 1997, gage height, 11.38 ft, from floodmarks, from rating curve extended above 200 ft³/s on basis of slope-area measurements at gage heights 6.41 ft and 9.70 ft; minimum daily discharge, 33 ft³/s Sept. 7-9, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,100 ft³/s Aug. 10, gage height, 11.38 ft, from rating curve extended as explained above; minimum daily discharge, 35 ft³/s July 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	53	e60	e60	67	61	54	41	37	37	36	e50
2	40	52	e60	e64	68	63	56	41	36	37	36	e50
3	39	55	e60	e300	65	63	60	39	37	36	36	e50
4	37	56	e60	e100	64	64	61	38	37	36	49	e90
5	37	55	e60	e70	62	60	58	38	38	36	53	e60
6	38	54	e60	e60	61	62	53	39	38	36	39	e70
7	37	52	e60	e60	59	64	55	38	38	36	37	e50
8	37	53	e60	e60	60	65	54	38	39	36	37	e90
9	37	54	e60	e60	60	67	57	38	39	36	37	e140
10	37	55	e100	e60	61	69	55	38	40	36	e200	e70
11	37	55	e100	59	62	72	53	38	39	36	e70	e60
12	37	55	e70	62	62	76	56	38	39	36	e80	e50
13	38	55	e60	64	60	76	66	38	41	36	e50	e50
14	38	55	e60	61	60	74	65	37	42	36	e45	e90
15	39	e56	e60	57	62	75	59	37	43	36	e45	e240
16	39	e56	e60	62	64	73	55	37	46	35	e45	e80
17	39	e56	e60	59	65	74	52	37	41	36	e45	e60
18	39	e56	e60	60	65	74	50	37	40	36	e45	e60
19	40	e56	e60	61	65	74	46	37	39	36	e45	e55
20	41	e56	e60	62	67	74	48	41	39	36	e45	57
21	41	e70	e60	63	62	74	48	41	38	36	e45	58
22	43	e200	e60	62	62	72	47	39	38	43	e45	60
23	47	e70	e60	84	62	70	46	38	38	37	e45	60
24	48	e65	e60	70	61	69	49	40	38	36	e45	58
25	50	e60	e60	73	62	65	48	39	37	36	e45	56
26	51	e60	e60	158	62	65	45	39	37	36	e45	281
27	49	e60	e60	114	68	64	43	39	37	36	e45	70
28	53	e60	e60	80	63	62	44	39	37	38	e45	59
29	55	e60	e60	70	---	61	43	38	37	37	e45	55
30	53	e60	e60	67	---	58	43	37	37	36	e45	53
31	54	---	e60	67	---	57	---	36	---	36	e60	---
TOTAL	1306	1860	1950	2409	1761	2097	1569	1190	1162	1128	1585	2332
MEAN	42.1	62.0	62.9	77.7	62.9	67.6	52.3	38.4	38.7	36.4	51.1	77.7
MAX	55	200	100	300	68	76	66	41	46	43	200	281
MIN	36	52	60	57	59	57	43	36	36	35	36	50
AC-FT	2590	3690	3870	4780	3490	4160	3110	2360	2300	2240	3140	4630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997
MEAN	46.7	56.9	58.6	72.2	75.4	92.8
MAX	57.1	62.8	62.9	110	110	153
(WY)	1994	1994	1997	1993	1993	1993
MIN	38.8	49.1	53.6	56.8	61.8	63.1
(WY)	1992	1992	1992	1992	1992	1996

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1992 - 1997

ANNUAL TOTAL	17901	20349		
ANNUAL MEAN	48.9	55.8	59.8	
HIGHEST ANNUAL MEAN			85.1	1993
LOWEST ANNUAL MEAN			48.2	1996
HIGHEST DAILY MEAN	200	Nov 22	300	Jan 3
LOWEST DAILY MEAN	34	Jun 6	35	Jul 16
ANNUAL SEVEN-DAY MINIMUM	34	Jun 6	36	Jul 10
ANNUAL RUNOFF (AC-FT)	35510	40360	43360	
10 PERCENT EXCEEDS	63	70	82	
50 PERCENT EXCEEDS	44	55	54	
90 PERCENT EXCEEDS	35	37	37	

e Estimated